

**SECTION 07210**  
**BUILDING PERIMETER INSULATION**

**PART 1 - GENERAL**

**0.1 DESCRIPTION OF WORK**

- A. Work Included: This Section specifies the following.
  - 1. Perimeter insulation under slabs-on-grade.
  - 2. Perimeter foundation wall insulation.
- B. Related Work: The following items are not included in this Section and will be performed under the designated Sections:
  - 1. Section 04800 - MASONRY: Insulation installed in cavity walls and masonry cells.
  - 2. Section 07540 - THERMOPLASTIC MEMBRANE ROOFING: Roofing insulation.
  - 3. Section 07550 - MODIFIED BITUMINOUS MEMBRANE ROOFING: Roofing insulation.
  - 4. Section 09260 - GYPSUM BOARD ASSEMBLIES: Acoustic insulation in gypsum board assemblies.
  - 5. Section 15400 - PLUMBING: Plumbing insulation.
  - 6. Section 15600 - HVAC: Mechanical insulation.

**0.2 SUBMITTALS**

- A. Product Data: For each type of product indicated.

**0.3 QUALITY ASSURANCE**

- A. Source Limitations: Obtain each type of building insulation through one source from a single manufacturer.

**0.4 DELIVERY, STORAGE, AND HANDLING**

- A. Protect insulation materials from physical damage and from deterioration by moisture, soiling, and other sources. Store inside and in a dry location. Comply with manufacturer's written instructions for handling, storing, and protecting during installation.
- B. Protect plastic insulation as follows:

1. Do not expose to sunlight, except to extent necessary for period of installation and concealment.
2. Protect against ignition at all times. Do not deliver plastic insulating materials to Project site before installation time.
3. Complete installation and enclosure of plastic materials as rapidly as possible in each area of construction.

## PART 2 - PRODUCTS

### 0.1 FOAM-PLASTIC BOARD INSULATION

- A. Available Products: Subject to compliance with requirements, products that may be incorporated into the Work include, but are not limited to, the following:
  1. DiversiFoam Products.
  2. Dow Chemical Company.
  3. Owens Corning.
- B. Extruded-Polystyrene Board Insulation: ASTM C 578, Type IV, with maximum flame-spread of 75 and smoke-developed 450.

### 0.2 AUXILIARY INSULATING MATERIALS

- A. Adhesive for Bonding Insulation: Product with demonstrated capability to bond insulation securely to substrates indicated without damaging insulation and substrates.

## PART 3 - EXECUTION

### 0.1 EXAMINATION

- A. Examine substrates and conditions, with Installer present, for compliance with requirements of Sections in which substrates and related work are specified and for other conditions affecting performance. Proceed with installation only after unsatisfactory conditions have been corrected.

### 0.2 PREPARATION

- A. Clean substrates of substances harmful to materials, including removing projections capable of puncturing materials or of interfering with insulation attachment.

### **0.3 INSTALLATION GENERAL**

- A. Comply with insulation manufacturer's written instructions applicable to products and application indicated.
- B. Install insulation that is undamaged, dry, and unsoiled and that has not been left exposed at any time to ice, rain, and snow.
- C. Extend insulation in thickness indicated to envelop entire area to be insulated. Cut and fit tightly around obstructions and fill voids with insulation. Remove projections that interfere with placement.

### **0.4 INSTALLATION OF PERIMETER AND UNDER-SLAB INSULATION**

- A. On vertical surfaces, set insulation units in adhesive applied according to manufacturer's written instructions. Use adhesive recommended by insulation manufacturer. If not otherwise indicated, extend insulation a minimum of 48 inches below exterior grade line.
- B. On horizontal surfaces, loosely lay insulation units according to manufacturer's written instructions. Stagger end joints and tightly abut insulation units.

### **0.5 PROTECTION**

- A. Protect installed insulation from damage due to harmful weather exposures, physical abuse, and other causes. Provide temporary coverings or enclosures where insulation is subject to abuse and cannot be enclosed and protected by permanent construction immediately after installation.

## **PART 4 - MEASUREMENT AND PAYMENT**

### **0.1 MEASUREMENT**

- A. Building insulation will be measured as per square foot complete in place, including all preparation, accessories and incidentals.

### **0.2 PAYMENT**

- A. Payment for building insulation will be made at the Contract unit price for the quantities as specified above.

### **0.3 PAYMENT ITEMS**

<u>ITEM NO.</u>	<u>DESCRIPTION</u>	<u>UNIT</u>
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**END OF SECTION**

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